Title (en)

METHOD FOR DETERMINING CONTROL DATA FOR A MIXING UNIT OF A FEED MIXING APPLIANCE

Title (de)

VERFAHREN ZUM BESTIMMEN VON STEUERDATEN FÜR EINE MISCHEINHEIT EINES FUTTERMISCHGERÄTES

Title (fr)

PROCÉDÉ POUR DÉTERMINER DES DONNÉES DE COMMANDE POUR UNE UNITÉ DE MÉLANGE D'UN APPAREIL DE MÉLANGE D'ALIMENTS

Publication

EP 4295675 A1 20231227 (EN)

Application

EP 22180577 A 20220622

Priority

EP 22180577 A 20220622

Abstract (en)

A computer-implemented method (100) for determining feed mixing unit control data (46) for a mixing unit (42) of a feed mixing appliance (24) is proposed. The determination is based on a net energy model for animal nutrition and considers additional animal health status data (16) as well as environmental conditions data (18) of a livestock (20) for a more precise calculation of an actual energy demand (228) of the animals (14). The feed mixing unit control data (46) comprises data regarding volumes and ratios of raw materials (10) and additives (12) as well as mixing process control data and is calculated such that a net energy (226) of a produced feed mix (22) is equal to an actual net energy demand (228) of a livestock (20). In addition, a feed mixing appliance (24) and service platform model is proposed wherein the control unit (40) along with a feed formula database (48) is centrally located at a cloud computing site.

IPC 8 full level

A01K 5/02 (2006.01)

CPC (source: EP)

A01K 5/0275 (2013.01)

Citation (applicant)

WO 2019217707 A1 20191114 - MARS INC [US]

Citation (search report)

- [XYI] WO 2015103361 A1 20150709 - ALLTECH INC [US]
- [Y] US 2008234995 A1 20080925 - NEWCOMB MARK D [US], et al
- [A] US 2020015457 A1 20200116 - COON CRAIG NELSON [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

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